

Application No. 10/081,478  
Amdt. Dated August 23, 2007  
Reply to Office Action of March 23, 2007

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of claims:**

1-36 Canceled.

37. (New) A biocompatible planar substrate comprising microgeometric textured surfaces; a first of said surfaces comprising a plurality of continuous grooves of a first size having a width and a height of about 2 to about 8 microns for promoting soft tissue cell growth; and a second of said surfaces comprising a plurality of continuous grooves of a second size having a width and a height of about 8 to about 12 microns for promoting bone cell growth; wherein said first size and said second size are different.

38. (New) The substrate of claim 37, wherein said substrate has a thickness of between about 200 and about 500 microns.

39. (New) The substrate of claim 37, wherein said substrate is flexible.

40. (New) The substrate of claim 37, wherein said substrate is bioabsorbable.

41. (New) The substrate of claim 37, wherein said substrate is made of at least one material selected from the group consisting of polylactic acid homopolymers, polyglycolic acid co-polymers, polylactones, polypeptides, polyvinyl alcohols, Hench's bioglass, fibrinogen and polyimino-carbonate, and natural polymers including collagen and polysaccharides.

42. (New) The substrate of claim 41, wherein a weight of said material is in a range of one to five grams/cm<sup>2</sup>.

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43. (New) The substrate of claim 37, wherein said lower surface has osteoconductive chemical properties.